

Amendments to the Specification

Please amend paragraphs [0077], [0154], [0164], and [0171] of the specification, so that they read as follows.

[0077] This frame 20 having peripheral dimensions of 200 mm × 180 mm, with opening 26 having a square side dimension of 124 mm, is molded by a 180 ton high speed injection molding machine of the Thomson type, using as an insert part a polymer membrane (Naphion® NAFION® 114 perfluorinated sulfonic acid copolymer membrane, 50 µm thickness) punched out as a square shape of 140 mm on a side. This molded frame 20 is characterized by providing 2 lines of beads (seal lip), which are described below, with an apex angle of 60°C on both sides and a base thickness of 0.8 mm.

[0154] In this Example, glass-filled liquid crystal polymer (VECTRA® AI30 aromatic polyester liquid crystal, made by Polyplastics Co., Ltd., having an elastic modulus of 15,000 MPa) was used for the material of the first step, which became frame 20 (frame parts 20a and 20b), and polyolefin elastomer (Santoprene 8101-55, made by Santoprene Japan Co., Ltd.) was used for the material of the second step, which became elastic body 90. The radial thickness of frame parts 20a and 20b is set at 0.25 mm each (in other words, the radial thickness of the entire frame 20 is 0.5 mm), the standard radial thickness of the elastic body is 0.25 mm, and the height of beads 90, which are provided on both sides of elastic body 90, is 0.2 mm.

[0164] In this Example, frames 20a and 20b were made with glass-filled liquid crystal polymer (VECTRA® BI30 aromatic polyester liquid crystal made by Polyplastics Co., Ltd., having an elastic modulus of 20,000 MPa) as the first step material using an injection-molding machine for the thermoplastic resin. In the second step (elastic bodies 90a and 90b) fluorine elastomer (Python AP made by Dupont Dow Elastomers Japan Co., Ltd., 55 Durometer rubber hardness) was molded by use of an injection-molding machine for thermoplastic resin.

[0171] In this modified Example, frames 20a and 20b were made with a glass-filled liquid crystal polymer (VECTRA® BI30 aromatic polyester liquid crystal, made by Polyplastics Co., Ltd., elastic modulus of 20,000 MPa). The second step (elastic bodies 90a and 90b) fluorine

Application No. 10/817,033

Reply to Office Action of January 21, 2007

elastomer (Python AP, made by Dupont Dow Elastomers Japan Co., Ltd., 55 Durometer rubber hardness) was molded using an injection-molding machine for the thermoplastic resin.